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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for detecting unauthorized intrusion in a network

system, comprising the steps of:

receiving packet level activity information from the network;

collecting sequential samples of sorted sorting port specific activity information from the

received packet level activity information by for each IP/user;

converting packet level the sorted IP/user port specific activity information to into human

behavioral measures of intent; behaviors and activities for each IP/user;

converting the sorted IP/user behavioral activities into behavioral measures of expertise

and deception as measures of underlying intent for each IP/user;

monitoring sequential determinations of the monitoring the converted human intent

behavioral measures, for the duration that each IP/user is in the network, wherein the monitoring

step includes determining new and previously undetected misuse behaviors as indicated by

increased intent levels of expertise and deception; and

executing at least one of a network connection blocking action or a tracking action based

upon the monitored human behavioral measures passive gathering of tracked intent information

for any given IP/user if monitored expertise and deception measures exceed intent thresholds

underlying non-misuse network activity.

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 (Original) The method according to claim 1, wherein the step of monitoring includes: identifying presence of at least one activity from the port specific activity information; assigning a binary representation (1 = present, 0=absent) to the at least one identified activity; and

generating an assessment based upon the binary rating.

- 3. (Original) The method according to claim 2, wherein the step of generating an assessment includes associating the binary rating with an assessment based upon predetermined behavioral criteria.
- 4. (Original) The method according to claim 3, wherein the step of generating an assessment includes mapping the assessment on at least one two-dimensional grid.
- 5. (Original) The method according to claim 4, wherein the step of mapping occurs dynamically and in real-time.
- 6. (Currently Amended) The method according to claim 2, wherein the step of generating an assessment includes generating a profile of the IP/user based upon the monitored behavioral measures.
- 7. (Original) The method according to claim 2, wherein the step of generating an assessment is carried out utilizing a back propagation network.

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8. (Original) The method according to claim 7 wherein the back propagation network

includes psychological assessment information.

9. (Original) The method according to claim 2, wherein the assessment is one of high

deception/high expertise, high deception/low expertise, low deception/high expertise and low

deception/low expertise.

10. (Original) The method according to claim 1, wherein the blocking action includes

sending a blocking command to a firewall for blocking further network access.

11. (Original) The method according to claim 1, wherein the tracking action includes storing

activity information in a tracking module.

12. (Currently Amended) A system for preventing unauthorized intrusion in a network

system, comprising:

a traffic sorter that receives a copy of the network activity and sorts all activities by

IP/User for the purpose collecting sequential samples of each IP/user's activities/behaviors:

an activity monitor operatively coupled to the traffic sorter for sequentially monitoring

converted human intent behavior behaviors and activities measures by IP/users[;]:

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an inter-port fusion module operatively coupled to the activity monitor that fuses

assessments from one or more assessment engines that monitor behavior measures by IP/User[;]:

and

an outcome director operatively coupled to the inter-port fusion monitor that determines

whether to block or track IP/users on a specific IP/User basis based upon assessed behavioral

measures of intent.

13. (Currently Amended) The system according to claim 12, wherein the activity monitor

includes at least one dedicated behavior monitor.

14. (Currently Amended) The system according to claim 13, wherein, the at least one

dedicated behavior monitor includes an activity /behavior analysis module, an activity translator

module and an assessment module.

15. (Currently Amended) The system according to claim 14, wherein the assessment module

includes a trained back propagation network.

16. (Original) The system according to claim 15, wherein the back propagation network

includes psychological assessment information.

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(Currently Amended) The system according to claim 14, wherein the traffic sorter 17.

receives packet level activity information from the network and sorts the port specific activity

information from the network into IP/Users.

18. (Currently Amended) The system according to claim 14, wherein the activity monitor

monitors the port and across-portspecific activity information.

(Currently Amended) The system according to claim 14, wherein the activity translator 19.

module assigns a binary rating based upon presence (1) or absence (0) of at least one

activity/behavior detected by the packet level analysis module.

(Currently Amended) The system according to claim 19, wherein the assessment module 20.

generates an assessment of levels of expertise and deception present in any sample of an

IP/User's overall activities/behaviors for a collection interval.

(Currently Amended) The system according to claim 19, wherein the assessment module 21.

maps the assessment result utilizing at least one of a two dimensional grid or X dimensional grid

for optional real-time viewing of a user's intent for each sequential collection interval.

22. (Original) The system according to claim 20, wherein an outcome director initiates at

least one of a blocking command or a tracking command based upon the assessment result.

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23. (Original) The system according to claim 22, wherein the blocking command is directed

to a system firewall.

24. (Currently Amended) The system according to claim 23 in which a blocking command

results in the <u>loss of the connection between an IP/User and the network and the storage</u> storage

of all relevant session data up to the point of forced loss of the IP/User's connection to the

network.

25. (Original) The system according to claim 22, wherein the tracking command is directed

to a tracking module.

26. (Original) The system according to claim 24, wherein the tracking module includes a

tracking database for storing activity information that may be used to provide evidence of an

intruder's harmful intent activities and at least one intent assessment during a session.

27. (Original) The system according to claim 26, wherein the tracking database includes

neural network assessment and associated information for the intruder that is at least one of

tracked or blocked.

28. (Original) The system according to claim 27, wherein the tracking database includes a

comparison module for comparing the neural network assessment and associated information

against a second assessment based upon a second network intrusion.

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29. (Original) The system according to claim 28, wherein at least one of a blocking or

tracking action is executed based upon an output from the comparison module.

30. (Currently Amended) A system for detecting unauthorized intrusion in a network system,

comprising:

sorting means for sorting sequential samples of IP/User specific activities/behaviors by

and across ports;

conversion means for converting the IP/User specific activities/behaviors to behavioral

measures of expertise and deception as measures of underlying intent for each IP/user;

monitoring means operatively coupled to the sorting means for monitoring sequential

determinations of the converted behavioral measures for the duration that each IP/user is in the

network and for determining new and previously undected misuse behaviors as indicated by

increased intent levels of expertise and deception; and

assessing means operatively coupled to the monitoring means for generating separate and

independent IP/user assessments based upon the behavior measures.

31. (Currently Amended) A computer program product, comprising:

a computer usable medium having computer readable code embodied therein for

preventing unauthorized intrusion into a computer network, the computer program product

comprising:

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computer readable program code configured to cause the computer to process a copy of network activity in real-time to collect sequential samples of sorted sort port specific and non-port specific activity information for each IP/user from packet level activity information received by the computer network;

computer readable program code configured to cause the computer to covert the port and non-port specific packet level activity information into human behaviors and activities for each IP/user and convert the sorted IP/user behavioral activities into behavioral measures of expertise and deception as measures of underlying intent for each IP/user behavioral measures of intent separately and independently for each IP/user;

computer readable program code configured to cause the computer to monitor the behavior measures by IP/user_sequential determinations of the converted human intent

behavioral measures, for the duration that each IP/user is in the network, wherein the montoring step includes determining new and previously undetected misuse behaviors as indicated by increased intent levels of expertise and deception; and

computer readable program code configured to cause the computer to execute at least one of a <u>network connection</u> blocking action or a <u>tracking action for the IP/user if assessed</u> behavioral measures indicate a threat intent <u>passive gathering of tracked intent information for any given IP/user if monitored expertise and deception measures exceed intent thresholds underlying non-misuse network activity.</u>

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32. (Currently Amended) The method according to claim 1, wherein the step of receiving the port <u>and non-port specific</u> specific activity/<u>behavior</u> information includes creating a copy of the network activity sorted by users.

33. (Previously Added) The method according to claim 1, further including the step of sorting non-port specific activity information from the received packet level activity information by IP/user; and converting the non-port specific activity information to human behavioral measures of intent.